

PRODUCT BULLETIN
GYPSUM PRODUCTS

CHEMICAL/FOOD
GRADE GYPSUM

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CANCELS: NEW
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This Bulletin covers specifications and tests for Chemical/Food Grade Gypsum manufactured from San Marcos gypsum at the Antioch, Seattle and Long Beach plants.

OPERATING SPECIFICATIONS

1. Produced from Type 1 or Type 2 Raymond Mill Ground Raw Gypsum (Operating Bulletin R-3).
2. Clean out packing system thoroughly before sacking Chemical/Food Grade Gypsum. If welding or painting has been done on equipment, make a special cleanout; run a "wash" charge through system; and check with Quality Laboratory for ok to pack Chemical/Food Grade Gypsum.
3. Pack in 100 pound net weight paper bags marked:

GYPSUM
CHEMICAL/FOOD GRADE
NET 100 LBS.

PRODUCT SPECIFICATIONS

1. Chemical Composition

Gypsum Purity	94% Minimum $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
Anhydrite	0 to 5% CaSO_4
Sandstone or Clay	0 to 4% SiO_2 and R_2O_3
Limestone	0 to 2% CaCO_3
Arsenic (Gutzeit spectrophotometer method)	3.0 Parts per million, Maximum
Fluoride (Distillation - SPADNS method)	89 Parts per million, Maximum
Lead (Dithizone extraction spectrophotometer method or special spectrographic method)	10 Parts per million, Maximum
Selenium (X-Ray diffraction spectrograph - Sensitivity 15 ppm)	None

2. Fineness

Retained on 30 mesh (%)	0.2 Maximum
Passing 100 mesh (%)	95 Minimum

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3. pH

6.5 - 7.5

REQUIRED TESTS

1. Mill Foreman check with Quality Laboratory to be sure that current tests on San Marcos Gypsum are above 94% purity.
2. Mill Foreman take minimum of two one-pound samples during sacking for each car or truckload.
3. Quality Laboratory run combined water test on each sample and report purity in laboratory records. Do not ship material under 94% purity.
4. Quality Laboratory retain samples for one year.
5. Research Department check a minimum of one sample yearly for arsenic, fluoride, lead and selenium. Analysis should be performed whenever there is a change in quarry location or operational change.

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